

# About Maps Enclosed with Eurocodes



Map of lowest air temperatures  
Karta najnižih temperatura zraka



Map of the highest air temperatures  
Karta najviših temperatura zraka

By accepting European norms for construction design, Croatia also accepted the principle of embedding national specificities, primarily referring to natural phenomena (wind, earthquake, snow, temperature) into each standard, i.e. to create special annexes for a certain norm with defined national parameters.

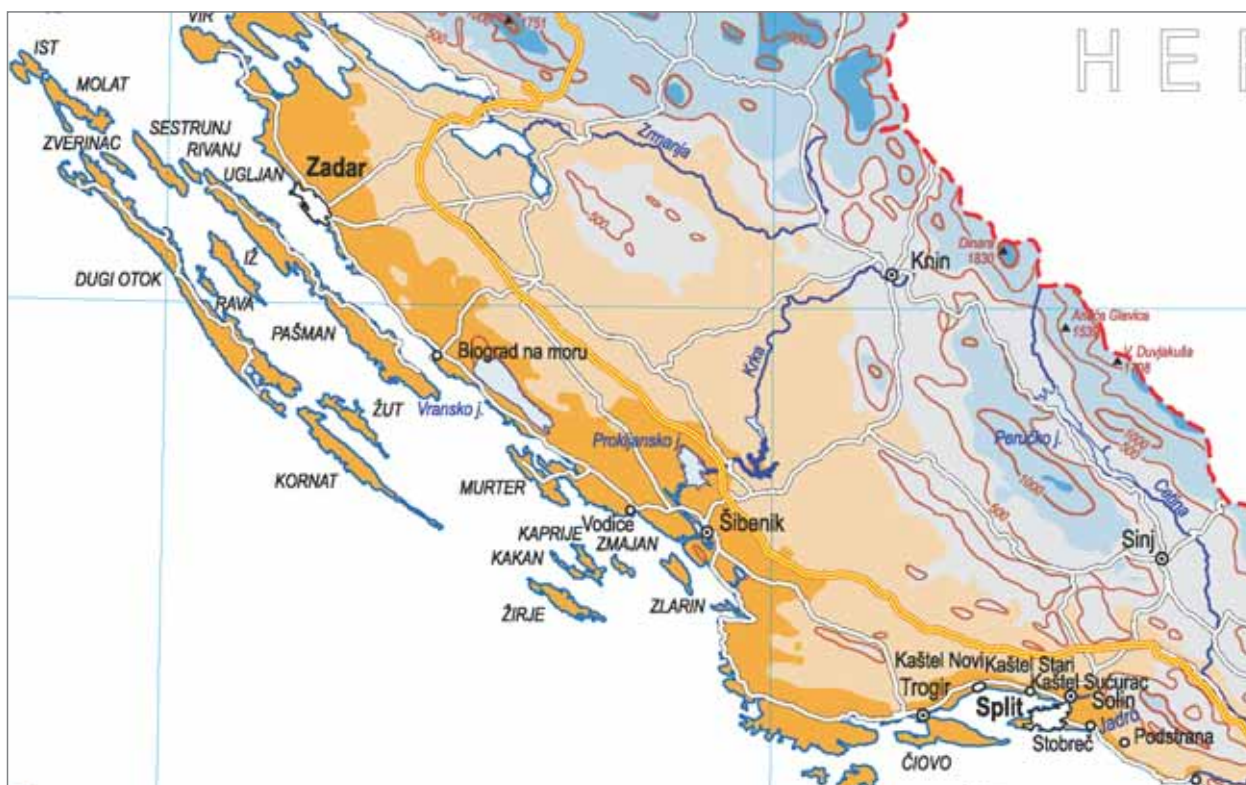
In accordance with these standards, the Croatian Standards Institute (Hrvatski zavod za norme – HZN) ordered from the Faculty of Geodesy in Zagreb a cartographic map processing of snow areas, the lowest and highest air temperatures and basic wind speeds for the territory of the Republic of Croatia.

For this purpose a base map, which is the same on each thematic map, was produced using data of the EuroGlobalMap (EGM). The EGM data for the territory of Croatia was produced and distributed by the State Geodetic Administration. Snow area borders were obtained by copying the template received from the HZN, while remaining thematic data (the lowest and highest air temperatures and basic wind speeds) was provided in ArcInfo ASCII Grid file by the Meteorological and Hydrological Institute. Alica Bajić, PhD is the author of the basic wind speeds template and its data. Her assistants were Stjepan Ivatek-Šahdan, MSc, Kristian Horvath, PhD and Melita Perčec Tadić, MSc. Melita Perčec Tadić is the author of the lowest and highest air temperatures templates and their data. Her assistants were Marjana Gajić-Čapka, PhD and Renata Sokol Jurković, MEng.

Cartographic map analysis was executed by Prof. Dr. Miljenko Lapaine, Marina Rajaković, MEng and Assist. Prof. Dr. Dražen Tutić from the Faculty of Geodesy, University of Zagreb. The maps were produced in the Lambert conformal conic projection with standard parallels 43°05' and 45°55' at the scale of 1:1 000 000.

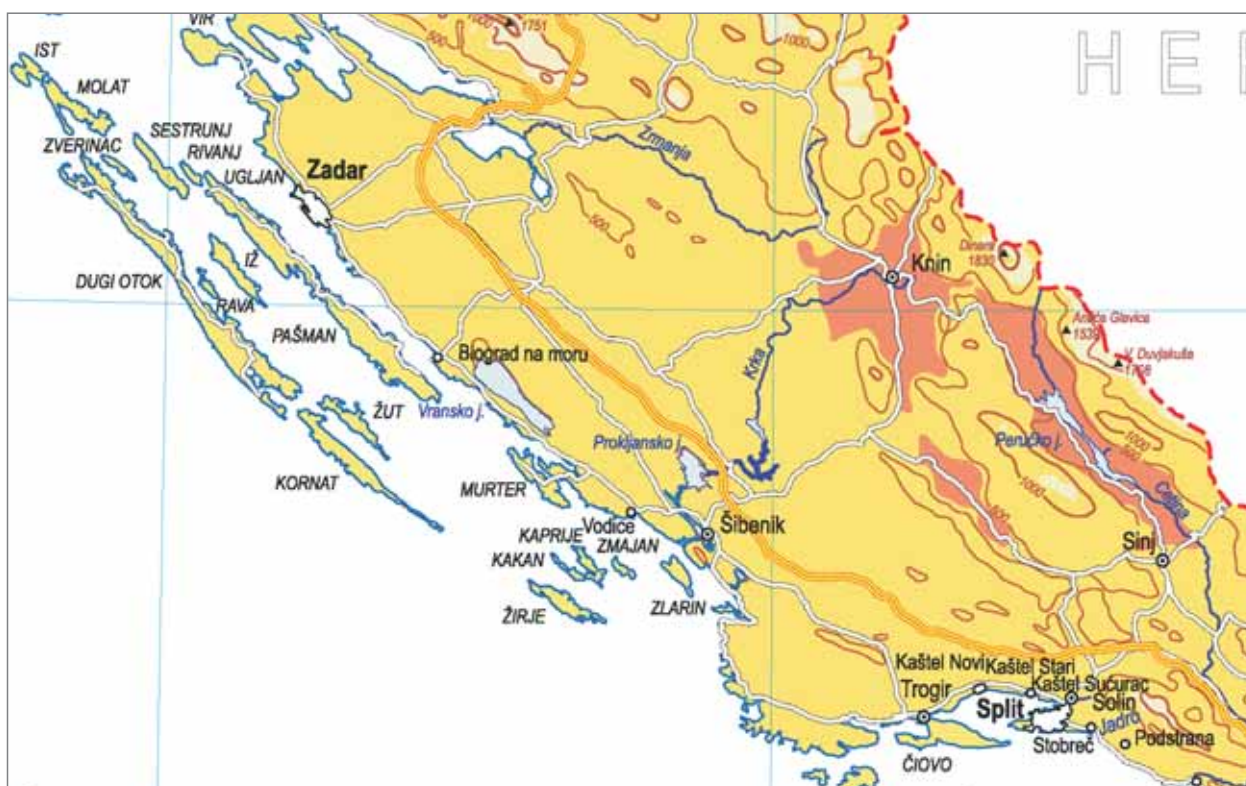
The maps are going to become an integral part of the national document for implementation of Eurocode 1 thanks to mutual contributions from the Meteorological and Hydrological Institute, the State Geodetic Administration, the Croatian Standards Institute and cartographic processing of the Faculty of Geodesy, University of Zagreb.

Marina Rajaković ■



Map of lowest air temperatures (section)

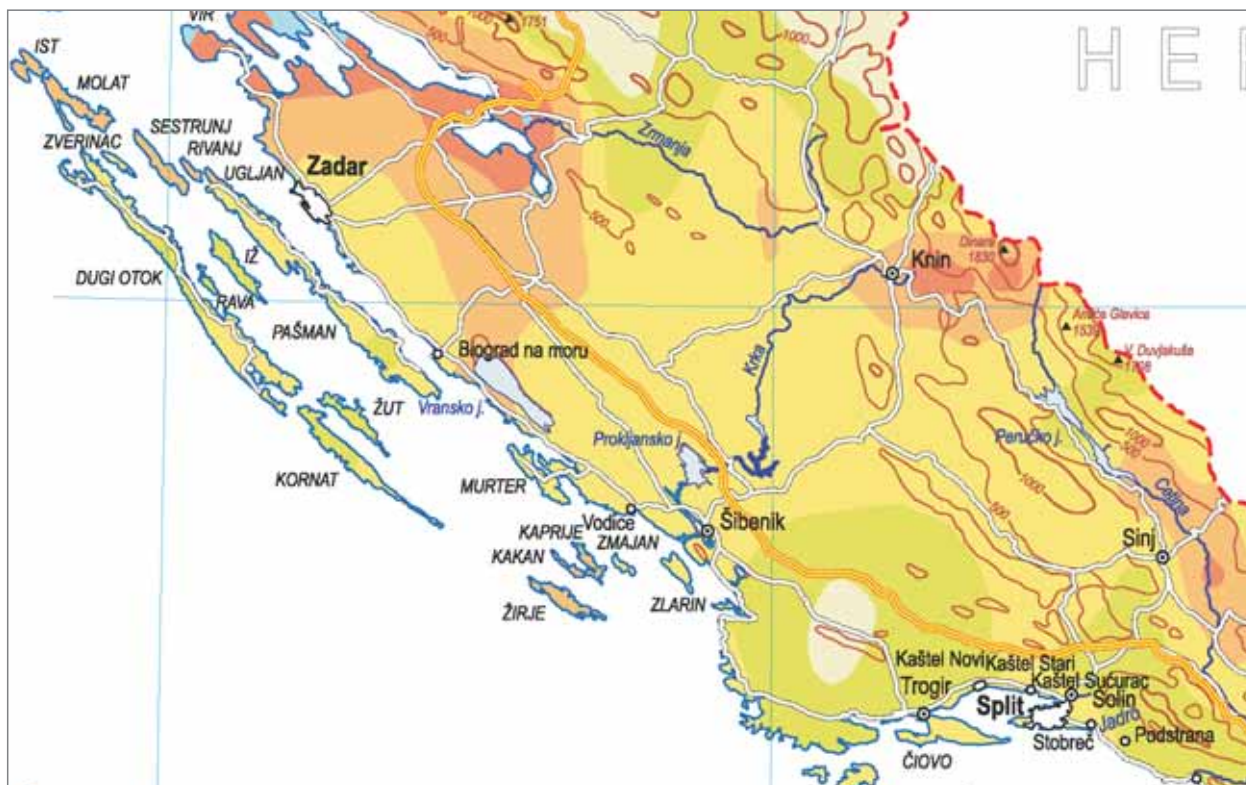
Karta najnižih temperatura zraka (isječak)



Map of the highest air temperatures (section)

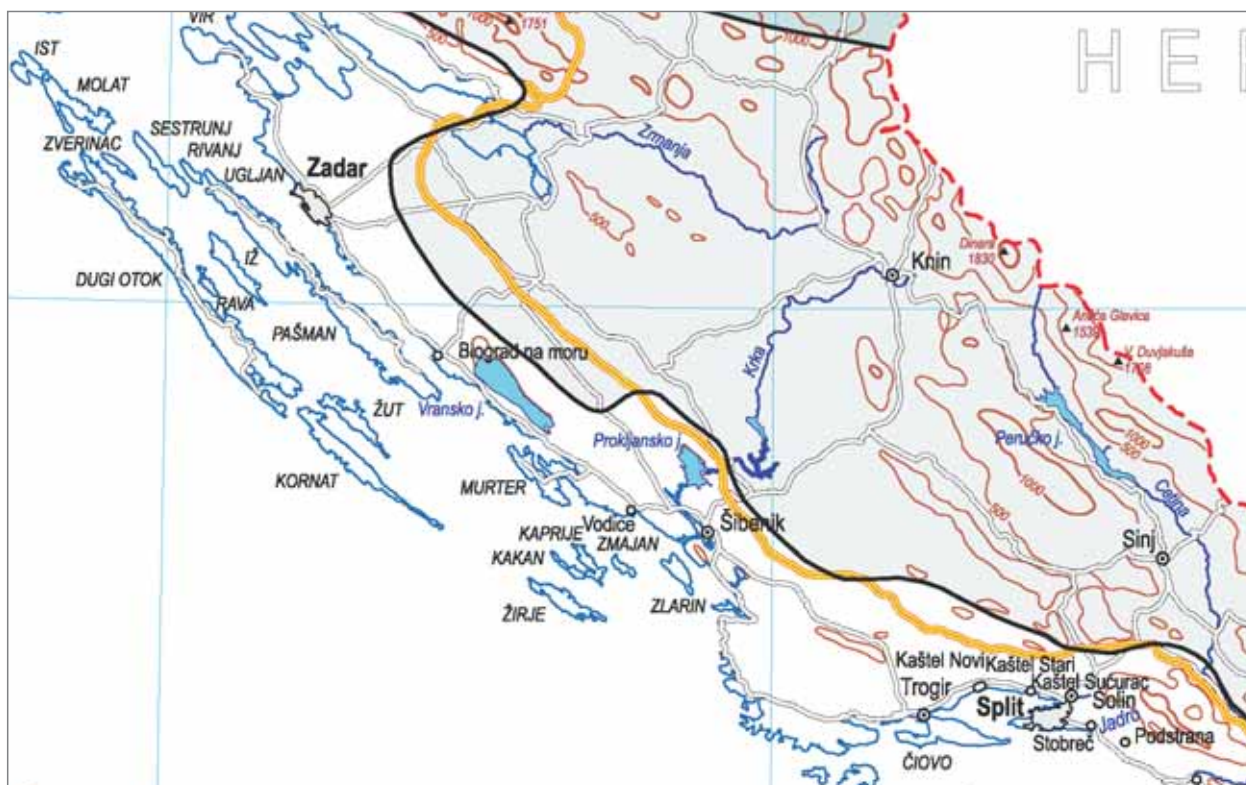
Karta najviših temperatura zraka (isječak)





Map of basic wind speeds (section)

Karta osnovne brzine vjetra (isječak)



Map of the snow areas (section)

Karta snježnih područja (isječak)

# O kartama uz eurokodove

Prihvatanjem europskih normi za projektiranje konstrukcija, Hrvatska je prihvatila i načelo da u pojedine norme ugradi nacionalne specifičnosti koje se ponajprije odnose na prirodne pojave (vjetar, potres, snijeg, temperatura itd.), tj. da izradi posebne dodatke za pojedinu normu s definiranim nacionalnim parametrima.

U skladu s tim normama Hrvatski zavod za norme (HZN) naručio je od Geodetskog fakulteta Sveučilišta u Zagrebu kartografsku obradu karata snježnih područja, najnižih i najviših temperatura zraka te osnovne brzine vjetra za područje Republike Hrvatske.

U tu svrhu za izradu podloge, koja je jednaka na svim tematskim kartama, upotrijebljeni su podaci EuroGlobalMapa (EGM) koje za područje Hrvatske izrađuje i distribuira Državna geodetska uprava. Podaci o granicama snježnih područja dobiveni su precrtavanjem predložka dobivenoga od HZN-a, dok su preostali tematski podaci (najniže i najviše temperature zraka te osnovne brzine vjetra) dobiveni u datoteci ArcInfo ASCII Grid od Državnog hidrometeorološkog zavoda. Autorica podataka i predložka karte osnovne brzine vjetra je dr. sc. Alica Bajić, a njezini suradnici mr. sc. Stjepan Ivatek-Šahdan, dr. sc. Kristian Horvath i mr. sc. Melita Perčec Tadić. Autorica podataka i predložka karte najnižih i najviših temperatura zraka je mr. sc. Melita Perčec Tadić, a njezine suradnice dr. sc. Marjana Gajić-Čapka i Renata Sokol Jurković, dipl. ing.

Kartografsku obradu napravili su prof. dr. sc. Miljenko Lapaine, Marina Rajaković, dipl. ing. i doc. dr. sc. Dražen Tutić s Geodetskog fakulteta Sveučilišta u Zagrebu u mjerilu 1:1 000 000 u Lambertovoj konformnoj konusnoj projekciji sa standardnim paralelama 43°05' i 45°55'.

Zajedničkim doprinosom Državnog hidrometeorološkog zavoda, Državne geodetske uprave, Hrvatskog zavoda za norme i kartografske obrade Geodetskog fakulteta Sveučilišta u Zagrebu karte će postati sastavni dio nacionalnog dokumenta za primjenu Eurokoda 1.

Marina Rajaković ■



Map of basic wind speeds  
Karta osnovne brzine vjetra



Map of the snow areas  
Karta snježnih područja